

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

5 Applicant(s): Drissi et al.
Docket No.: YOR920000401US1
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Group: 2121
10 Examiner: Wilbert L. Starks

Title: Method and Apparatus for Generating a Data Classification Model Using
an Adaptive Learning Algorithm

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CORRECTED SUMMARY OF CLAIMED SUBJECT MATTER

20 Mail Stop Appeal Brief - Patents
Commissioner for Patents
P O. Box 1450
Alexandria, VA 22313-1450

25 Sir:

Appellants hereby submit this corrected Summary of Claimed Subject
Matter in response to the Notification of Non-Compliant Appeal Brief dated May 4,
2007. As instructed in the Notification, an entire brief is not being filed, and only the
30 defective section is included herewith.

SUMMARY OF CLAIMED SUBJECT MATTER

Independent claim 1 is directed to a method for classifying data, comprising the steps of: classifying objects in a domain dataset using one or more data classification models, each of said one or more data classification models having a bias (page 8, lines 11-19; page 9, lines 17-24); selecting at least one of said one or more data classification models based on a meta-feature that characterizes said domain data set (page 11, lines 5-18; FIG. 9: 900); evaluating the performance of said classifying step (page 9, line 17, to page 10, line 3); and modifying said bias based on said performance evaluation (page 11, lines 14-18; FIG. 9: 900).

Claims 3 and 18 require the step of processing said recorded performance values for each combination of said domain datasets and said bias to generate one or more rules, each of said rules specifying one or more characteristics of said domain datasets and a corresponding bias that should be utilized in one of said data classification models (page 10, lines 4-24).

Claims 4 and 19 require the step of selecting a data classification model for classifying a domain dataset by comparing characteristics of said domain dataset to said rules (page 11, lines 5-18; FIG. 9: 900)

Independent claim 8 is directed to a method for classifying data, comprising the steps of: classifying objects in a plurality of domain datasets using one of a number of data classification models, each of said data classification models having a corresponding bias (page 8, lines 11-19; page 9, lines 17-24); evaluating the performance of each of said domain dataset classifications (page 9, line 17, to page 10, line 3); maintaining a performance value for each combination of said domain datasets and said bias (page 8, lines 11-19); processing said performance values for each combination of said domain datasets and said bias to generate one or more rules, each of said rules specifying one or more characteristics of said domain datasets and a corresponding bias that should be utilized in one of said data classification models (page 10, lines 4-24); and selecting a data classification model for classifying a domain dataset by comparing characteristics of said domain dataset to said rules (page 11, 5-18; FIG. 9: 900).

Independent claim 13 is directed to a method for classifying data in a domain dataset, comprising: applying an adaptive learning algorithm to said domain dataset to select a data classification model based on a meta-feature that characterizes said domain data set, said data classification model having a bias (page 11, lines 5-18);
5 classifying objects in said domain dataset using said selected data classification model (page 8, lines 11-19; page 9, lines 17-24); evaluating the performance of said classifying step (page 9, line 17, to page 10, line 3); maintaining an indication of said performance of said model for said domain dataset (page 8, lines 11-19); repeating said applying, classifying and evaluating steps for a plurality of said domain datasets; and processing
10 said performance values for each combination of said domain datasets and said bias to adjust one or more rules for subsequent data classification, each of said rules specifying one or more characteristics of said domain datasets and a corresponding bias that should be utilized in one of said data classification models (page 10, lines 4-24).

Independent claim 16 is directed to a system for classifying data,
15 comprising: a memory (FIG. 1: 120) that stores computer-readable code; and a processor (FIG. 1: 110) operatively coupled to said memory, said processor configured to implement said computer-readable code, said computer-readable code configured to (page 5, line 17, to page 6, line 25): classify objects in a domain dataset using one or more data classification models, each of said one or more data classification models
20 having a bias (page 8, lines 11-19; page 9, lines 17-24); selecting at least one of said one or more data classification models based on a meta-feature that characterizes said domain data set (page 11, lines 5-18); evaluate the performance of said classifying step (page 9, line 17, to page 10, line 3); and modify said bias based on said performance evaluation (page 11, lines 14-18; FIG. 9: 900).

25 Independent claim 21 is directed to a system for classifying data, comprising: a memory (FIG. 1: 120) that stores computer-readable code; and a processor (FIG. 1: 110) operatively coupled to said memory, said processor configured to implement said computer-readable code, said computer-readable code configured to (page 5, line 17, to page 6, line 25): classify objects in a plurality of domain datasets
30 using one of a number of data classification models, each of said data classification

models having a corresponding bias (page 8, lines 11-19; page 9, lines 17-24); evaluate the performance of each of said domain dataset classifications (page 9, line 17, to page 10, line 3); maintaining a performance value for each combination of said domain datasets and said bias (page 8, lines 11-19); process said performance values for each combination of said domain datasets and said bias to generate one or more rules, each of said rules specifying one or more characteristics of said domain datasets and a corresponding bias that should be utilized in one of said data classification models (page 10, lines 4-24); and select a data classification model for classifying a domain dataset by comparing characteristics of said domain dataset to said rules (page 11, lines 5-18; FIG. 9: 900)

Independent claim 22 is directed to an article of manufacture for classifying data, comprising: a computer readable medium having computer readable code means embodied thereon, said computer readable program code means comprising (page 5, line 17, to page 6, line 25): a step to classify objects in a domain dataset using one or more data classification models, each of said one or more data classification models having a bias (page 8, lines 11-19; page 9, lines 17-24); selecting at least one of said one or more data classification models based on a meta-feature that characterizes said domain data set (page 11, lines 5-18); a step to evaluate the performance of said classifying step (page 9, line 17, to page 10, line 3); and a step to modify said bias based on said performance evaluation (page 11, lines 14-18; FIG. 9: 900).

Independent claim 23 is directed to an article of manufacture for classifying data, comprising: a computer readable medium having computer readable code means embodied thereon, said computer readable program code means comprising (page 5, line 17, to page 6, line 25): a step to classify objects in a plurality of domain datasets using one of a number of data classification models, each of said data classification models having a corresponding bias (page 8, lines 11-19; page 9, lines 17-24); a step to evaluate the performance of each of said domain dataset classifications (page 9, line 17, to page 10, line 3); a step to maintaining a performance value for each combination of said domain datasets and said bias (page 8, lines 11-19); a step to process said performance values for each combination of said domain datasets and said bias to

generate one or more rules, each of said rules specifying one or more characteristics of said domain datasets and a corresponding bias that should be utilized in one of said data classification models (page 10, lines 4-24); and a step to select a data classification model for classifying a domain dataset by comparing characteristics of said domain dataset to said rules (page 11, lines 5-18; FIG. 9: 900).

The attention of the Examiner and the Appeal Board to this matter is appreciated.

Respectfully,



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